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METHODS FOR THE SPECIFIC DETECTION OF REDOX-ACTIVE TAGS AND THE USE THEREOF FOR CAPILLARY GEL ELECTROPHORESIS AND DNA SEQUENCING

ABSTRACT OF THE DISCLOSURE

This invention provides novel approach to the specific detection of redoxactive moieties (e.g.) in a population of redox-active moieties. In particular this invention provides a "phase-nulling" technique that can be used in the electrochemical detection of redox-active tags. The signal for each tag is selectively eliminated while the other tag's response remains virtually unchanged. This novel analysis scheme allows for the simple identification of a tag of interest in a complex matrix and is demonstrated with both flow injection analysis and capillary gel electrophoresis..

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